

1 GAATTCGGCGGAGGCCGAGAGAGAAGTCACTTGCCCTGGCTCTACCTTGAAGTGGTTCTCAGGGTTGGGCGAGAGTGGGGACCGAGATGC
 101 AGCTCTATCCTGTGCCCCCTGGTCGACAGGCCAGCGCTTCGGCGTGTCTACTTGGCCCTGTCCGCTGCCGCCCTAATGAGCTCAGGTCTAGGCCGAG
 201 CAGAGGGGCGACCTGGTCGGA CTGGTGGCTCGGGCGGCCCGCCCTCCCCCGCCCGCAGCGGGGCCCTTCTCGACGGCGGGGGCGGCCCTGCGG
 301 GCGCGGGGCTGAAGGCGGAACCAACGACGCGGCGAGAGACGAGCCGGGAAGCCCTGGGCGCCCGCTCGGAGGGCTATGGAGCAGGCGCGCGGGCTGC
 1 M E Q R P R G C
 401 GCGGCGGTGGCGGGCGGCTCCTCGTGGTGGTGGGGCCCCAGGGCGGCACTCGTAGCCCCCAGGTGTGACTGTGCCGGTGACTTCCACAAGA
 9 A A V A A A L L L V L L G A R A Q G G T R S P R C D C A G D F H K K
 501 AGATTGGTCTGTTTGTGACAGAGGCTGCCAGCGGGCACTACCTGAAGGCCCTTGACGGAGCCCTGGGCAACTCCACCTGCCCTTGTGTGCCCA
 43 I G L F C C R G C P A G H Y L K A P C T E P C G N S T C L V C P Q
 601 AGACACCTTCTTGGCCTGGGAGAACCAACATAATTCTGAATGTGCCCGCTGCCAGGCCCTGTGATGAGCAGGCCCTCCAGGTGGCGCTGGAGAACTGTTCA
 76 D T F L A W E N H H N S E C A R C Q A C D E Q A S Q V A L E N C S
 701 GCAGTGGCGGACACCCGCTGTGGCTGTAAAGCCAGGCTGTTGTGGAGTGCCAGGTCAGCCAATGTGTGAGCAGTTTACCCCTTCTACTGCCAACCAATGCC
 109 A V A D T R C G C K P G W F V E C Q V S Q C V S S P F Y C Q P C L
 801 TAGACTGCGGGGCCCTGCACCGCCACACAGGCTACTCTGTTCGCGCAGAGATACTGACTGTGGGACCCTGCCCTGCCCTTCTATGAACATGGCGATGG
 143 D C G A L H R H T R L L C S R R D T D C G T C L P G F Y E H G D G
 901 CTGCGTGTCTGCCCCACGTAATTCCTAGCTGTCTGGATGGAGGGAAGGGCGCTGGGAGCAGAGCAGGGGCCCTGGGGTGGGCGAGGTGCTGCTGGTT
 176 C V S C P T
 1001 CAGGAATAGGAAGGGGATAGGAGAGGGAGCCCTTGGCCCTGTGATGGTGGGCCCACTTCAGGCAAACTTAGATGGCAAAAGAGCAATCTGGATCC
 1101 GCCTTAGCCAGATACATAAGGGTATTTGCCCTTCACTTTCAGCCAGCATTCGCCCCAGCGATCCTAGCCAGATATTACAGATGATTTGTCACTTACACAGA
 1201 GAGTCACATTGATATAGCTTTAAAACCTTGGGCTGAAGGAGGTTCAGGTGCAGTGAGCTATGATCGTGGCCACTGCACCTTCAGCCTGGGCAACAGAGCGAG
 1301 ACCTATTAAATAAAATAATTAATAATTAATAATTAATAATCTATTAAATAAATAAAGGGCTGAGAGTCAGGACTGTGCTGC
 1401 TAGTTCTCTAGGGGATCTTGGCAAGTGCAGAGAATTC

FIG. 1

	34	D	C	A	G	D	-	-	F	H	K	K	I	G	L	F	C	C	R	G	C	P	A	G	H	Y	L	K	A	P	C	T	E	P	C	G	N	S	T	C	L		
hApo2LI																																											
hTIFR1	43	V	C	P	Q	G	K	-	Y	I	H	P	Q	N	S	I	C	C	T	K	C	H	K	G	T	Y	L	Y	N	D	C	P	G	P	G	Q	D	T	D	C	R	-	
hTIFR2	39	T	C	R	L	R	E	-	-	Y	Y	D	Q	T	A	Q	M	C	C	S	K	C	P	G	Q	H	A	K	V	F	C	T	K	T	-	S	D	T	V	C	D	-	
hTIFR1p	42	T	C	R	D	O	E	K	E	-	Y	Y	E	P	Q	H	R	I	C	C	S	R	C	P	G	T	Y	V	S	A	K	C	S	R	I	-	R	D	T	V	C	A	-
hFAS/Apo1	48	N	L	E	G	L	-	-	-	H	H	D	G	Q	F	C	H	K	P	C	P	P	G	E	R	K	A	R	D	C	T	V	N	G	D	E	P	D	C	V	-		
hLNGFR	31	A	C	P	T	G	-	-	-	L	Y	T	H	S	G	E	C	C	K	A	C	N	L	G	E	G	V	A	Q	P	C	G	A	-	-	N	Q	T	V	C	E	-	
hCD40	25	A	C	R	E	K	-	-	-	Q	Y	L	I	N	S	Q	C	C	S	L	C	Q	P	G	Q	K	L	V	S	D	C	T	E	F	-	T	E	T	E	C	L	-	
hCD27	26	S	C	P	E	R	-	-	-	H	Y	W	A	Q	G	K	L	C	C	Q	M	C	E	P	G	T	F	L	V	K	D	C	D	Q	H	R	K	A	A	Q	D	-	
hCD30	28	T	C	H	G	N	P	S	H	-	Y	Y	D	K	A	V	R	R	C	C	Y	R	C	M	G	L	F	P	T	Q	Q	C	P	Q	R	-	-	P	T	D	C	R	K
hOX40	30	H	C	V	G	D	T	-	-	-	Y	P	S	N	D	R	C	C	H	E	C	R	P	G	N	G	M	V	S	R	C	S	R	S	-	Q	N	T	V	C	R	-	

	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100																							
hApo2LI	V	C	P	Q	D	-	T	F	L	A	W	E	N	H	H	S	E	C	A	R	C	-	Q	A	C	D	E	Q	A	S	Q	V	A	L	E	N	C	S	A	V	A	D	T	R	C	G	-	-	-	-	-	-
hTNFR1	E	C	E	S	G	-	S	F	T	A	S	E	N	H	L	R	H	C	L	S	C	-	S	K	C	R	K	E	M	Q	V	E	I	S	S	C	T	V	D	R	D	T	V	C	G	-	-	-	-	-	-	-
hTNFR2	S	C	E	D	S	T	Y	T	Q	L	W	N	W	V	-	P	E	C	L	S	C	G	S	R	C	S	S	-	-	D	Q	V	E	T	Q	A	C	T	R	E	Q	N	R	I	C	T	-	-	-	-	-	-
hTNFRtp	T	C	A	E	N	S	Y	N	E	H	W	N	Y	L	-	T	I	C	Q	L	C	-	R	P	C	D	P	V	M	G	L	E	E	I	A	P	C	T	S	K	R	K	T	Q	C	R	-	-	-	-	-	-
hFAS/Apo1	P	C	Q	E	G	K	E	Y	T	D	K	A	H	F	S	S	K	C	R	R	C	-	R	L	C	D	E	G	H	G	L	E	V	E	I	N	C	T	R	T	O	N	T	K	C	R	-	-	-	-	-	-
hLINGFR	P	C	L	D	S	V	T	F	S	D	V	V	S	A	T	E	P	C	K	P	C	-	T	E	C	V	G	L	-	-	Q	S	M	S	A	P	C	V	E	A	D	D	A	V	C	R	-	-	-	-	-	-
hCD40	P	C	G	E	S	E	F	L	D	T	W	N	R	E	-	T	H	C	H	Q	H	-	K	Y	C	D	P	N	L	G	L	R	V	Q	Q	K	G	T	S	E	T	D	T	I	C	T	-	-	-	-	-	-
hCD27	P	C	I	P	G	V	S	F	S	P	D	H	H	T	R	P	H	C	E	S	C	-	R	H	C	N	S	G	L	L	V	R	-	-	-	N	C	T	I	T	A	N	A	E	C	A	-	-	-	-	-	
hCD30	Q	C	E	P	D	-	Y	Y	L	D	E	A	D	R	-	-	-	C	T	A	C	-	V	T	C	S	R	D	D	L	V	E	K	T	-	P	C	A	W	N	S	S	R	V	C	E	-	-	-	-		
hOX40	P	C	G	P	G	-	F	Y	N	D	V	V	S	S	K	P	-	C	K	P	C	-	T	W	C	N	L	R	S	G	S	E	R	K	Q	L	C	T	A	T	Q	D	T	V	C	R	-	-	-	-	-	

FIG. 2A

	116	127	120	126	129	109	105	106	108	109
hApo2LI	C K P G	W F V E C Q V S Q C V S S P F Y C	Q P C L D C G A L H R H T R L L C S R R D -	T D C G - T						
hTNFR1	C R K N	Q Y R H Y W S E N L - - - F Q C	F N C S L C L N G - - T V H L S C Q E K Q N	T V C - - T						
hTNFR2	C R P G	W Y C A L S K Q E G C - - - R L C	A P L R K C R P G - F G V A R P G T E T S D V	V C K - P						
hTNFR1p	C Q P G	M F C A A W A L E C - - - T H C	E L L S D C P P G T E A E L K D E V G K G N N H C V	- P						
hFAS/Apo1	C K P N	F F - C N S T V C - - - E H C	D P C T K C E H G I - - - I K E C T L T S N	T K C K -						
hLINGFR	C A Y G	Y Y Q D E T T - - - - G R C	E A C R V C E A G S G L - V F S C Q D K Q N	T V C E - E						
hCD40	C E E G	W H C T S E A C - - - - E S C	V L H R S C S P G F G - V K Q I A T G V S D	T I C E - P						
hCD27	C R N G	W Q C R D K E C - - - - T E C	D P L P N P S L T A R S S Q A L S P H P Q P T	T H L P -						
hCD30	- C R P G	M F C S T S A V N S C - - - A R C	F F H S V C P A G M I V K F P G T A Q K - N	T V C E -						
hOX40	- C R A G	T Q P L D S Y K P G - - - - V D C A -	- - - - -	- - - -						

[illegible]

FIG. 2B

1 CGGGCCCTGC GGGCGGGGG CTGAAGGCGG AACACGACG GGCAGAGAGC ACGAGCCCGG
61 GAAGCCCCCTG GGCGCCCGTC GGAGGGCTAT GGAGCAGCGG CCGCGGGGCT GCGCGGCGGT
1 M F O R P R G C A A V
121 GGGGGGGCG CTCCTCCTGG TGCTGCTGG GGGCGGGCC CAGGGCGGCA CTCGTAGCCC
12 A A A L L L V L L G A R A Q G G T R S P
181 CAGGTGTGAC TGTGCCGGTG ACTTCCACAA GAAGATTGGT CTGTTTGTG GCAGAGGCTG
32 R C D C A G D F H K K I G L F C C R G C
241 CCCAGCGGG CACTACCTGA AGGCCCTTG CAGGAGCCC TGGGGCAACT CCACCTGCCT
52 P A G H Y L K A P C T E P C G N S T C L
301 TGTGTGTCCC CAAGACACCT TCTTGGCGTG GGAGAACAC CATAATTCTG AATGTGCCCCG
72 V C P Q D T F L A W E N H H N S E C A R
361 CTGCCAGGCC TGTGATGAGC AGGCTCCCA GGTGGCGCTG GAGAACTGTT CAGCAGTGGC
92 C Q A C D E Q A S Q V A L E N C S A V A
421 CGACACCCGC TGTGGCTGTA AGCCAGGCTG GTTGTGGAG TGCCAGGTCA GCCAATGTGT
112 D T R C G C K P G W F V E C Q V S Q C V
481 CAGCAGTTCA CCCTTCTACT GCCAACCATG CCTAGACTGC GGGGCCCTGC ACCGCCACAC
132 S S S P F Y C Q P C L D C G A L H R H T

FIG. 4A

541 ACGGCTACTC TGTTCCCGCA GAGATACTGA CTGTGGGACC TGCCTGCCTG GCTTCTATGA
 152 R L L C S R R D T D C G T C L P G F Y E

 601 ACATGGCGAT GGCTGCGTGT CCTGCCCCAC GAGCACCCCTG GGGAGCTGTC CAGAGCGCTG
 172 H G D G C V S C P T S T L G S C P E R C

 661 TGCCGCTGTC TGTGGCTGGA GGCAGATGTT CTGGGTCCAG GTGCTCCTGG CTGGCCTTGT
 192 A A V C G W R Q M F W V Q V L L A G L Y

 721 GGTCCTCCCTC CTGCTTGGGG CCACCCCTGAC CTACACATAC CGCCACTGCT GGCCCTCACAA
 212 V P L L L G A T L T Y T Y R H C W P H K

 781 GCCCCTGGTT ACTGCAGATG AAGCTGGGAT GGAGGCTCTG ACCCCACCAC CGGCCACCCA
 232 P L V T A D E A G M E A L T P P P A T H

 841 TCCTGTCACCC TTGGACAGCG CCCACACCCCT TCTAGCACCT CCTGACAGCA GTGAGAAGAT
 252 L S P L D S A H T L L A P P D S S E K I

 901 CTGCACCGTC CAGTTGGTGG GTAACAGCTG GACCCCTGGC TACCCCGAGA CCCAGGAGGC
 272 C T V Q L V G N S W T P G Y P E T Q E A

 961 GCTCTGCCCG CAGGTGACAT GGTCTCTGGA CCAGTTGCCC AGCAGAGCTC TTGGCCCCCG
 292 L C P Q V T W S W D Q L P S R A L G P A

 1021 TGCTGCGCCC ACACCTCTGC CAGAGTCCCC AGCCGGCTCG CCAGCCATGA TGCTGCAGCC
 312 A A P T L S P E S P A G S P A M M L Q P

FIG. 4B

1081 GGGCCCCGACG CTCTACGACG TGATGGACGC GGTCCCACGC CGGCGCTGGA AGGAGTTCGT
332 G P Q L Y D V M D A V P A R R W K E F V
1141 GCGCACGCTG GGGCTGCCG AGGCAGAGAT CGAAGCCGTG GAGGTGGAGA TCGGCCGCTT
352 R T L G L R E A E I E A V E V E I G R F
1201 CCGAGACCAG CAGTACGAGA TGCTCAAGCG CTGGCGCCAG CAGCAGCCCG CGGGCCCTCGG
372 R D Q Q Y E M L K R W R Q Q Q P A G L G
1261 AGCCGTTTAC GCGGCCCTGG AGCGCATGG GCTGGACGGC TGCGTGGAAG ACTTGCGCAG
392 A V Y A A L E R M G L D G C V E D L R S
1321 CCGCCTGCAG CGCGGCCCGT GACACGGCGC CCACTTGCCA CCTAGGCGCT CTGGTGGCCC
412 R L Q R G P
1381 TTGCAGAAGC CCTAAGTACG GTTACTTATG CGTGTAGACA TTTTATGTCA CTTATTAAAGC
1441 CGCTGGCAGC GCCCTGCCGA GCAGCACCCAG CCGGCCCCAC CCGTCTCGC CCCTATCGCT
1501 CCAGCCAAGG CGAAGAAGCA CGAACGAATG TCGAGAGGGG GTGAAGACAT TTCTCAACTT
1561 CTCGGCCGGA GTTTGGCTGA GATCGCGGTA TTAAATCTGT GAAAGAAAAC AAAAAAAAAA
1621 AAAAAAAAAA AAAA

FIG. 4C

[illegible]

Apo3	378	ML	KRW	RQ	Q	P	-	-	-	A	G	L	G	A	V	A	A	L	E	R	M	G	L	-	D	G	C	V	E	D	L	R	S						
TNFR1	374	ML	A	T	W	R	R	R	E	A	T	L	E	L	L	G	R	V	L	R	D	M	D	L	-	L	G	C	L	E	D	I	E	E					
Fas/Apo1	261	L	L	R	N	W	H	Q	L	H	G	-	K	K	E	A	Y	D	T	L	I	K	D	L	K	K	A	N	L	C	T	L	A	-	E	K	I	Q	T
FADD	144	S	L	R	I	W	K	N	T	E	-	K	E	N	A	T	V	A	H	L	V	G	A	L	R	S	C	-	-	Q	M	N	L	V	A	D	L	V	
TRADD	251	S	L	A	Y	E	E	R	E	G	L	Y	E	Q	A	F	Q	L	L	R	R	F	V	-	Q	A	E	G	R	R	A	T	L	Q	R	L	V	E	
RIP	332	M	L	Q	K	W	V	M	R	E	G	I	K	G	A	T	V	G	K	L	A	Q	A	L	H	Q	C	-	-	S	R	I	D	L	L	S	S	L	T
Reaper	34	F	L	A	T	V	V	L	E	T	L	K	Q	Y	T	S	C	H	P	K	T	G	R	K	S	G	K	Y	R	K	P								

FIG. 6

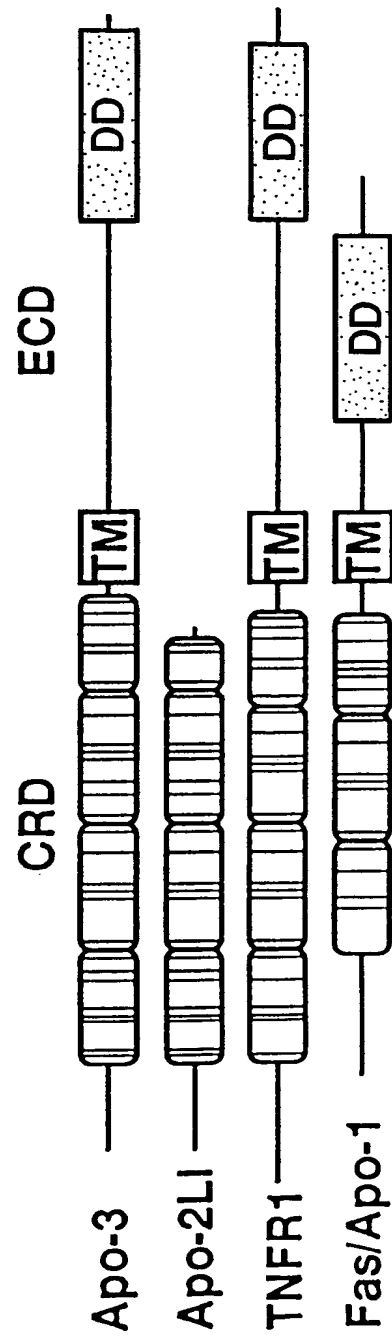


FIG. 7

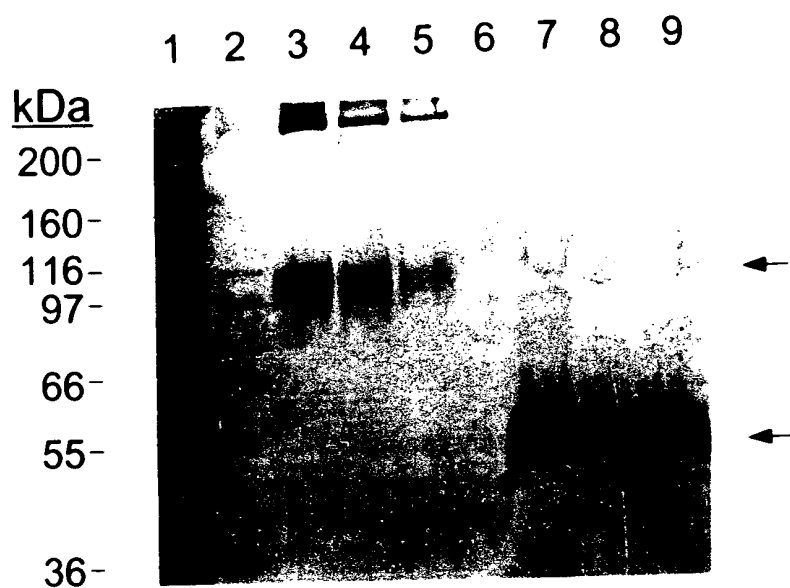


FIG. 3

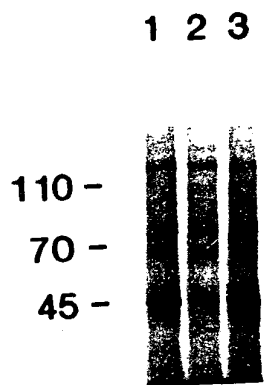


FIG. 8

1 2 3 4 5 6 7 8 9



FIG. 10

FIG. 9A



FIG. 9B



FIG. 9C



FIG. 9D

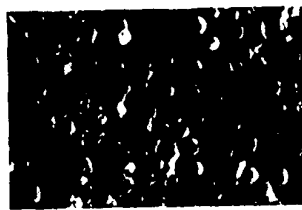


FIG. 9E

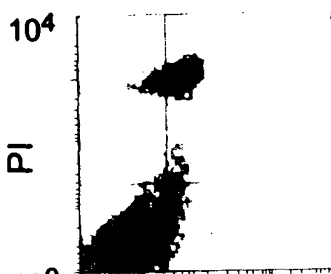


FIG. 9F

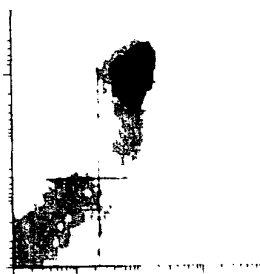


FIG. 9G

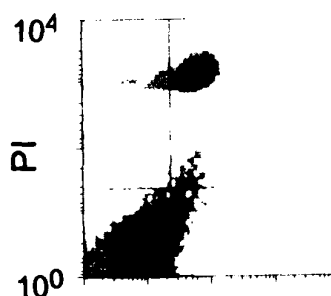


FIG. 9H

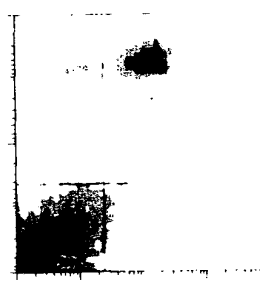


FIG. 9I

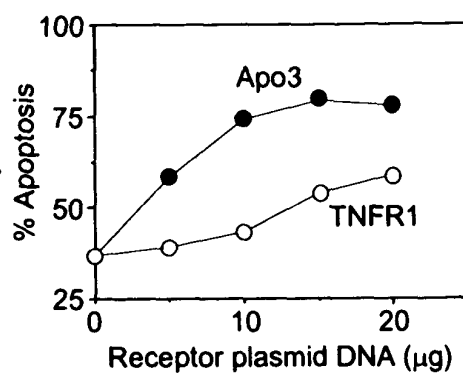


FIG. 9J



Transfection

pRK5
TNFR1
Apo-3

 **Phospho-C-Jun**

FIG. 11

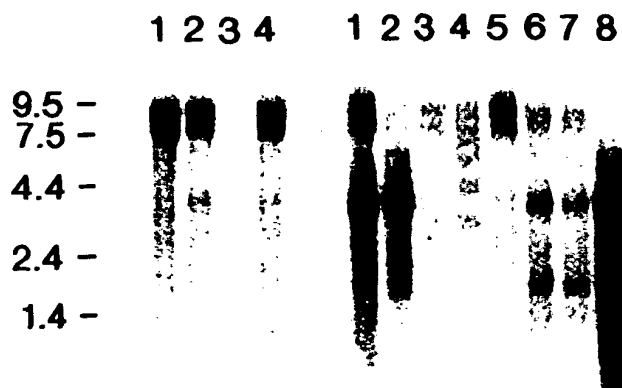


FIG. 12